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Heat sealable packaging laminate - consisting of film of polyamide from xylylenediamine and dicarboxylic acid coated with lower melting

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Patent Family

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
DE 2165399	A					197231	B
US 3843479	A	19741022				197444	
GB 1380918	A	19750115				197503	
JP 75001156	B	19750116				197507	
JP 75007099	B	19750320				197516	
US 29340	E	19770802				197732	
DE 2165399	B	19780518				197821	

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Patent Details

Patent	Kind	Language	Page	Main IPC	Filing Notes
DE 2165399	A		28		

Abstract:

DE 2165399 A

Laminated film with a gas permeability measured at 30 degrees C of ≤ 50 ml./m².24 hr.atm., consists of (I) a biaxially drawn support film of a polyamide contg. ≥ 70 mole-% units of m-xylylenediamine, opt. together with ≤ 30 mole-% p-xylylenediamine, and a 6-10 C alpha, omega - dicarboxylic acid, and (II) ≥ 1 layer of a thermoplastic resin having m.pt. at least 50 degrees C lower than that of the film (I). Film (I) has the following physical properties (1) a gas permeability constant measured at 30 degrees C of $\leq 9 \times 10^{-13}$ ml.cm/cm².sec.cmHg., (2) a planar orientation index $x + y / z - z$ of ≥ 0.025 (where x = the refractive index in the lengthwise direction of the film; y = the refractive index in the transverse direction of the film; and z = the refractive index in the thickness direction of the film), (3) a refraction residual value x-y of ≤ 0.045 , (4) a tensile strength of ≥ 10 kg./mm² in the lengthwise and transverse directions, (5) an elongation at break in the lengthwise and transverse directions of 30-150%, (6) a draw limit of ≥ 5 kg./mm² in the lengthwise and transverse directions, and (7) an elongation at the draw limit of 2-6% in the lengthwise and transverse directions.

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